BRUHAT BANGALORE MAHANAGARA PALIKE

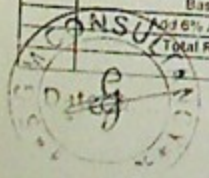
Executive Engineer Yelahanka Zone

Estimated cost Rs 12500000.00

Name of Work: Construction of Rain water lead of drain at Kondappa layout 19th to 28th cross in Choudeshwari ward.No.2

Sl No		Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No-143, I.No-19.1)								
	DRAIN	Cum							
	Sai baba Temple main road		1	600.00	1.20	1.10	792.00		
	3rd A cross road		1	70.00	1.20	1.10	92.40		
	16th cross road		1	34.00	1.20	1.10	44.88		
	25th Cross road		1	32.00	1.20	1.10	42.24		
	24th cross road		1	40.00	1.20	1.10	52.80		
	23rd cross road		1	53.00	1.20	1.10	69.96		
	22nd cross road		1	48.00	1.20	1.10	63.36		
	21st cross road		1	74.00	1.20	1.10	97.68		
	20th cross road		1	66.00	1.20	1.10	87.12		
	19th cross road		1	50.00	1.20	1.10	66.00		
	KERB								
	Sai baba Temple main road		1	600.00	0.80	0.20	96.00		
	CULVERT								
	main road		4	8.00	1.70	1.40	76.16		
	Cross road		6	6.00	1.70	1.40	85.68		
							1666.28	137.80	229613.38
	Basic Rate Rs.=	130.00							
	Add 6% A.W Rs. =	7.80							
	Total Rate Rs. =	137.80							
2	KSRB 2-4. Refilling avalable earth around pipelines,cables in layers not exceeding 20cms in depth,compacting each deposited layer by ramming after watering with lead upto 50m. And lift upto 1.5m. Including cost of all labour complete as per specifications.								
	for filling								
	50% of earth work	cum					833.14	128.26	106858.54
	Basic Rate Rs.=	121.00							
	Add 6% A.W Rs. =	7.26							
	Sub Total =	128.26							
3	KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 page no-155 item no-20.18								
	DRAIN	Cum							
	25th Cross road		1	32.00	1.20	0.15	5.76		
	24th cross road		1	40.00	1.20	0.15	7.20		
	23rd cross road		1	53.00	1.20	0.15	9.54		
	22nd cross road		1	48.00	1.20	0.15	8.64		
	21st cross road		1	74.00	1.20	0.15	13.32		
	20th cross road		1	66.00	1.20	0.15	11.88		
	19th Cross road		1	50.00	1.20	0.15	9.00		
							65.34	2001.28	130763.64
	Basic Rate Rs.=	1888.00							
	Add 6% A.W Rs. =	113.28							
	Sub Total =	2001.28							
	Total Rate Rs. =	2001.28							

Sl No		Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m		In Rs	In Rs
4	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.80cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P No-222,I No-27.18)								
	DRAIN	Cum							
	Sai baba Temple main road		1	600.00	1.20	0.15	108.00		
	3rd A cross road		1	70.00	1.20	0.15	12.60		
	16th cross road		1	34.00	1.20	0.15	6.12		
	25th Cross road		1	32.00	1.20	0.15	5.76		
	24th cross road		1	40.00	1.20	0.15	7.20		
	23rd cross road		1	53.00	1.20	0.15	9.54		
	22nd cross road		1	48.00	1.20	0.15	8.64		
	21st cross road		1	74.00	1.20	0.15	13.32		
	20th cross road		1	66.00	1.20	0.15	11.88		
	19th cross road		1	50.00	1.20	0.15	9.00		
	KERB								
	Sai baba Temple main road		1	600.00	0.80	0.10	48.00		
	CULVERT								
	main road		4	8.00	1.70	0.15	8.16		
	Cross road		6	6.00	1.70	0.15	9.18		
							257.40	**5421.90**	**1395597.06**
	Basic Rate Rs.=	5115.00							
	Add 6% A W Rs. =	306.90							
	Total Rate Rs. =	**5421.90**							
5	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P No 271 I No.37.59.2 of PW, P&MWTD S R 2018-19)								
	For Raft	Cum							
	DRAIN								
	Sai baba Temple main road		1	600.00	0.90	0.15	81.00		
	3rd A cross road		1	70.00	0.90	0.15	9.45		
	16th cross road		1	34.00	0.90	0.15	4.59		
	25th Cross road		1	32.00	0.90	0.15	4.32		
	24th cross road		1	40.00	0.90	0.15	5.40		
	23rd cross road		1	53.00	0.90	0.15	7.16		
	22nd cross road		1	48.00	0.90	0.15	6.48		
	21st cross road		1	74.00	0.90	0.15	9.99		
	20th cross road		1	66.00	0.90	0.15	8.91		
	19th cross road		1	50.00	0.90	0.15	6.75		
	CULVERT						**144.05**		
	main road		4	8.00	1.40	0.25	11.20		
	Cross road		6	6.00	1.40	0.25	12.60		
	For side walls						**23.80**		
	Sai baba Temple main road	1x2	2	600.00	0.15	0.75	135.00		
	3rd A cross road	1x2	2	70.00	0.15	0.75	15.75		
	16th cross road	1x2	2	34.00	0.15	0.75	7.65		
	25th Cross road	1x2	2	32.00	0.15	0.75	7.20		
	24th cross road	1x2	2	40.00	0.15	0.75	9.00		
	23rd cross road	1x2	2	53.00	0.15	0.75	11.93		
	22nd cross road	1x2	2	48.00	0.15	0.75	10.80		
	21st cross road	1x2	2	74.00	0.15	0.75	16.65		
	20th cross road	1x2	2	66.00	0.15	0.75	14.85		
	19th cross road	1x2	2	50.00	0.15	0.75	11.25		
	CULVERT						**240.08**		
	main road	4x2	8	8.00	0.25	0.90	14.40		
	Cross road	6x2	12	6.00	0.25	0.90	16.20		
							30.60		
						Net Qty	**438.52**	**7070.20**	**3100424.10**
	Basic Rate Rs.=	6670.00							
	Add 6% A W Rs. =	400.20							
	Total Rate Rs. =	7070.20							



Sl No		Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
6	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.2.0.2 of PW, P&IWTD S.R 2018-19)								
	Considering steel For Culvert @ 60 kg / cum			384.12	0.06		23.0472	24.96	
	Considering steel For Culvert @ 90 kg / cum			54.40	0.090		4.90		
		Tn					27.94	73992.24	2067343.19
	Basic Rate Rs.=	69804.00							
	Add 6% A.W.Rs. =	4188.24							
	Total Rate Rs. =	73992.24							
7	Providing and fixing RCC precast cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	Saibaba Temple main road		1	600.00	0.90		540.00		
	3rd A cross road		1	70.00	0.90		63.00		
	16th cross road		1	34.00	0.90		30.60		
	25th Cross road		1	32.00	0.90		28.80		
	24th cross road		1	40.00	0.90		36.00		
	23rd cross road		1	53.00	0.90		47.70		
	22nd cross road		1	48.00	0.90		43.20		
	21st cross road		1	74.00	0.90		66.60		
	20th cross road		1	66.00	0.90		59.40		
	19th cross road		1	50.00	0.90		45.00		
	Miscy Slabs		1	35.0	X0.90		960.30	2337.00	2244221.10
8	Providing and fixing RCC precast cover slab of 250mm thick made out of CC 1:2:4 and jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	For Culvert Slabs	Sqm							
	main road		4	8.00	1.40		44.80		
	Cross road		6	6.00	1.40		50.40		
							95.20	5418.00	515793.60
9	**Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc. complete. Page No.27 Item No.5.30**	Nos							
	KEARB								
	Saibaba Temple main road		1	600.00			600.00		
					0.45		1333.33		
	Basic Rate	408.00					1334.00	432.48	576928.32
	Area Weightage 6%	24.48							
	Grand Total	432.48							
10	KSRRB 800 : Painting 3 coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications MORTH Chapter 8 Page No.180 Item No.24.1	sqm							
	Saibaba Temple main road		1	600.00	0.45		270.00		
	Basic Rate	80.00					270.00	84.80	22896.00
	Area Weightage 6%	4.80							
	Grand Total	84.80							

19,92,575.45

23,18,988.25

Sl No		Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
11	Conveying the excavated earth (lead charges) to a with lead of 8 kms with all lead and lift. Including loading and unloading charges etc., complete as per direction of Engineer in charge								
	Cost of Haulage BR = Rs.2, Item No.17.4, Page No.133, SR 18-19								
	Loading and unloading BR=Rs.57.00 (Page No:133, It:17.1)								
	For 8 KM = 2*1.28*6Kms = Rs.20.48 (Page No:139)								
	Qty Vide Item No. 1	cum					1666.28		
	consider 50% only						833.14	82.13	68424.79
	Loading and unloading	57.00							
	Lead of 8 kms	20.48							
	Sub total	77.48							
	Area Weightage @ 6%	4.65							
	Total	82.13							1,04,58,212.78
								Total construction Cost	10458863.72
								Towards GST 12%	1255063.65
								Tender premiun 5%	522943.19
								Sub Total	12236870.55
								DPR and PMC Charges 2%	244737.41
								Utility Shifting,Miscellaneous and Rounding off	18392.04
								GRAND TOTAL	12500000.00

12,54,985.50
522910.64
2,44,764.34
1,24,495.273

CERTIFICATE:

1. The work spot has been inspected by me and the work is found to be necessary
2. The estimate is prepared as per PW, P&IWTD S.R Bangalore circle for the year 2018-2019.
3. The Provisions made in the estimate are quite necessary and adequate
4. The area comes with in the BBMP limits

Assistant Engineer

Assistant Executive Engineer
Yelahanka Sub Division
BBMP

Executive Engineer
Yelahanka Division
BBMP

Technical Sanction
Acc. Code No. RS1.24.2.38.2.91
Head of Acc. 2.38.2.3
CER NO :.144..... Dt:13.11.2020

EE (YNK)

S.G.M CONSULTANTS
BANGALORE

Administrative Sanction for Rs 125.00 Lakhs
Rupees One Crore Twenty five
Lakhs Only
is accorded under head P-2052
Spares Development Works
.....
Registered as CE No. ...100
to conditions contained in endorsement
No BBMP/E.E/Ynk/AS/100/2020-21 Dated 13/11/2020